

## SEQUENCE LISTING

<110> BROWN, JAMES R.
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<120> Methods Using Mechanisms of Action of AroA

<130> GM50053

<140> To Be Assigned

<141> 2001-11-05

<150> PCT/US00/12251

<151> 2000-05-04

<150> 60/133,070

<151> 1999-05-07

<160> 4

<170> FastSEQ for Windows Version 4.0

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<212> DNA

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120

125

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225		~ 7	_		230	_		~	_	235		_	~1		240
Val	Ala	Gly	Leu		Ala	Pro	Asn	Ser	Arg	Leu	Val	Leu	GIn		Val
~ 1	~ 1		~ 3	245		m1		<b>-</b> 7.	250		77.3	<b>-</b> 1-		255	Mark
GIA	iie	Asn		Thr	Arg	unr	GTĀ		Ile	ASP	val	ile		Ala	Wet
~ 1	G1	F	260		T1 -	mla sa	.71	265	Asp	D== 0	1701	7.1.0	270	Cox	λl
TĀ	GTY	275	ьеи	13111	шe	7111	280	ire	Asp	PIO	vai	285	-JA 2	ser	Ala
Thr	Len		Le:V	(21)	Sor	Sar		T.611	Lys	Glv	Thr		Tle	Cve	Gly
1 ***	290	110	7141	·3.2 a	SCI	295	пор	130.0	<i></i> 1	.51.4	300	0.14	11.5	oy.	017
Ala		Tle	Pro	Ara	Leu		Asp	Glu	Leu	Pro		Tle	Ala	Leu	Leu
3:05				9	310					315					320
	Thr	Gln	Ala	Gln		Val	Thr	Val	Ile		Asp	Ala	Glu	Glu	Leu
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Glu	Val	Glu	Leu	Asp	Arg	Ala	Glu	Ala	Ile	Asn	Thr	Ser	Tyr	Pro	Ser
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eaggttttte gtgacettgg tgttgaaatt gaggataaag atggggttat tacegtteaa 180
ggtgtagggea tggetggett aaaagegeeg caaaatgeee ttaatatggg aaattetgge 240
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1245

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<sup>&</sup>lt;213> Streptococcus pneumoniae

<221> unsure <212> (149) ((161) (162) (163) (164) (165) (166) (167) (168 pt.) <213> Where Xaa can be represented by any one of the twenty naturally <223> occurring proteins <400> 4 Ser Leu Ile Val Pro Gly Asp Lys Ser Ile Ser His Arg Ser Ile Ile 5 10 Phe Gly Ser Leu Ala Glu Gly Glu Thr Lys Val Tyr Asp Ile Leu Arg 25 Gly Glu His Val Leu Ser Thr Met Gln Val Phe Arg Asp Leu Gly Val 40 Glu Ile Glu Asp Lys Asp Gly Val Ile Thr Val Gln Gly Val Gly Met 55 60 Ala Gly Leu Lys Ala Pro Gln Asn Ala Leu Asn Met Gly Asn Ser Gly 70 75 Thr Ser Ile Arg Leu Ile Ser Gly Val Leu Ala Gly Ala Asp Phe Glu 85 90 Val Glu Met Phe Gly Asp Asp Ser Leu Ser Lys Arg Pro Met Asp Arg 100 105 Val Thr Leu Pro Leu Lys Lys Met Gly Val Ser Ile Ser Gly Gln Thr 120 125 115 Glu Arg Asp Leu Pro Pro Leu Arg Phe Lys Arg Asp Glu Lys Pro Lys 130 135 140 Thr Tyr Ser Leu Xaa Val Ala Asn Cys Leu Cys Pro Ser Gln Val Ser 150 155 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Kaa Lys Gly Glu Ser Val Ile Ile Glu 165 170 Lys Glu Tyr Thr Arg Asn His Thr Glu Asp Met Leu Gln Gln Phe Gly 185 Gly His Leu Ser Val Asp Gly Lys Lys Ile Thr Val Gln Gly Pro Gln 200 Lys Leu Thr Gly Gln Lys Val Val Pro Gly Asp Ile Ser Ser Ala 215 210 Ala Phe Trp Leu Val Ala Gly Leu Ile Ala Pro Asn Ser Arg Leu Val 230 235 Leu Gln Asn Val Gly Ile Asn Glu Thr Arg Thr Gly Ile Ile Asp Val 245 250 Ile Arg Ala Met Gly Gly Lys Leu Glu Ile Thr Glu Ile Asp Pro Val

265

270

260

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Ile	Ala	Leu	Leu	Ala	Thr	Gln	Ala	Gln	Gly	Val	Thr	Val	Ile	Lys	Asp
305					310					315					320
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Ser	Tyr	Pro	Ser	Phe	Phe	Asp	Asp	Leu	Glu	Ser	Leu	Ile	His	Gly	
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